



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Van Gelder, et al  
Serial No.: 09/713,545  
Filed: November 15, 2000  
For: *Multi-Gene Expression Profile*

Art Unit: 1636

Examiner: Gerald G. Leffers Jr., Ph.D.

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 C.F.R. § 1.97**

**MAIL STOP AMENDMENT**

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Applicant hereby brings to the attention of the Examiner the documents noted on the accompanying Form PTO-1449. This Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits.

It is respectfully requested that the information cited herein be expressly considered during the prosecution of this application and made of record on any patent to issue therefrom. Inclusion of a reference on the enclosed 1449 is not to be construed as indicating the reference is prior art. Provision of this Information Disclosure Statement is not to be taken as evidence that a search has been conducted.

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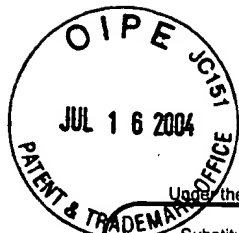
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July 16, 2004

Respectfully submitted,  
**QUARLES & BRADY STREICH LANG, LLP**

By: Barbara J. Luther  
Barbara J. Luther, Reg. No. 33,954

Attorney Docket No. 112133.00003  
Address all correspondence to:  
Barbara J. Luther  
One Renaissance Square  
Two North Central Avenue  
Phoenix, AZ 85004  
Telephone: 602-230-5502  
Facsimile: 602-229-5690  
Email: bluther@quarles.com



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Sheet 1 of 16

### Complete if Known

Application Number	09/713,545
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First Named Inventor	Van Gelder, et al
Art Unit	1636
Examiner Name	Gerald G. Leffers Jr., Ph.D.
Attorney Docket Number	112133.00003

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US- 3,007,780	02/19/63	Takatsy	
	2	US- 3,252,331	05/24/66	Lancaster	
	3	US- 4,357,421	11/02/82	Emtage et al	
	4	US- 4,503,151	03/05/85	Paddock	
	5	US- 4,661,450	04/28/87	Kempe et al	
	6	US- 4,683,195	07/28/87	Mullis et al	
	7	US- 4,683,202	07/28/87	Mullis	
	8	US- 4,738,669	4/19/88	Vlock	
	9	US- 4,959,313	9/25/90	Taketo	
	10	US- 4,965,188	10/23/90	Mullis et al	
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### FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	1	WO 88/01302	02/25/88	Gingeras et al		
	2	WO 88/10315	12/29/88	Gingeras et al		
	3	WO 89/01050	02/09/89	Burg et al		
	4	WO 90/06995	06/28/90	Gingeras et al		
	5	EP 0052002	5/19/82	Tacon et al		
	6	EP 0062971	10/20/82	Atherton et al		

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		Art Unit	1636		
		Examiner Name	Gerald G. Leffers Jr., Ph.D.		
Sheet	4	of	16	Attorney Docket Number	112133.00003

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	1	Butler, E.T. et al. "Bacteriophage SP6-specific RNA Polymerase," (1982) J. of Biol. Chem. 257(10): 5772-5778.	
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	5	COVA, L. et al. "Use of cRNA Probes for the Detection of Enteroviruses by Molecular Hybridization," (1988) J. of Med. Virology 24: 11-18.	
	6	DALESSIO, J.M. et al. "Second-Strand cDNA Synthesis with EColi DNA Polymerase I and RNase H: The Fate of Information at the mRNA 5' Terminus and the Effect of E.Coli DNA Ligase," (1988) Nucleic Acids Res. 16(5): 1999-2014.	
	7	DEAN, R.R. et al. "Narcolepsy Without Unique MHC Class II Antigen Association: Studies in the Canine Model," (1989) Human Immunology 25: 27-35.	
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	9	DENNY, P. et al. "Oligo-Riboprobe," (1988) Histochemistry 89: 481-483.	
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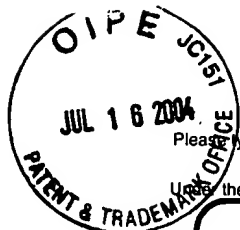
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 16

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First Named Inventor	Van Gelder, et al
Group Art Unit	1636
Examiner Name	Gerald G. Leffers Jr., Ph.D.
Attorney Docket Number	112133.00003

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	21	DOHERTY, P.J. et al. "Rapid Amplification of Complementary DNA from Small Amounts of Unfractionated RNA," (1989) Analytical Biochemistry 177: 7-10.	

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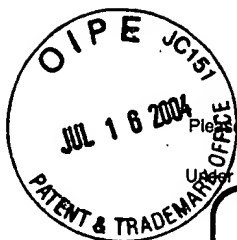
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	22	DUNN, T.J. et al. "Phenobarbital-Inducible Aldehyde Dehydrogenase in the Rat," (1989) J. of Biol. Chem. 264(22): 13057-13065.	
	23	EBERWINE, J.H. et al. "Glucocorticoid Regulation of Pro-Opiomelanocortin Gene Transcription in the Rat Pituitary," (1984) J. of Biol. Chem. 269(4): 2166-2170.	
	24	EBERWINE, J.H. et al. "Isolation of Enzyme cDNA Clones by Enzyme Immunodetection Assay: Isolation of a Peptide Acetyltransferase," (1987) Proc. Natl. Acad. Sci. USA 84: 1449-1453.	
	25	ENDO, F. et al. "Primary Structure and Gene Localization of Human Prolidase," (1989) J. of Biol. Chem. 264(8): 4476-4481.	
	26	FEINBERG, A.P. et al. "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," (1983) Analytical Biochem. 132: 6-13.	
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	28	FOUTZ, A.S. et al. "Genetic Factors in Canine Narcolepsy," (1979) Sleep. 1(4): 413-422.	
	29	FRADKIN, L.G. et al. "Primer-Dependent Eukaryotic RNA Polymerase Capable of Accurate Transcription from the Adenovirus Major Late Promoter in a Reconstituted System," (1985) Proc. Natl. Acad. Sci. USA 82: 7979-7983.	
	30	FRECH, G.C. et al. "Construction of Directional cDNA Libraries Enriched for Full-Length Inserts in a Transcription-Computer Vector," (1989) (PubMed Abstract) Gene Anal. Tech. 6(2): 33-38.	
	31	FROHMAN, M.A. et al. "Rapid Production of Full-Length cDNAs from Rare Transcripts: Amplification Using a Single Gene-Specific Oligonucleotide Primer," (1988) Proc. Natl. Acad. Sci. USA 85: 8998-9002.	
	32	FULLER, C.W. et al. "Initiation of DNA Replication at the Primary Origin of Bacteriophage T7 by Purified Proteins," (1985) J. of Biol. Chem. 260(5): 3185-3196.	

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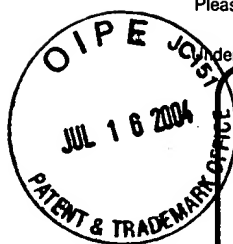
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	33	GAUBATZ, J. et al. "Strategies for Constructing Complementary DNA for Cloning," (1982) J. Theor. Biol. 95: 679-696.	
	34	GAUBATZ, J. et al. (1985). "Displacement Synthesis of Globin Complementary DNA: Evidence for Sequence Amplification," (1985) Biochimica et Biophysica Acta 825: 175-187.	
	35	GINGERAS, T.R. et al. "Nucleotide Sequences from the Adenovirus-2 Genome," (1982) J. of Biol. Chem. 267(22): 13475-13491.	
	36	GINGERAS, T.R. et al. (1987). "Hybridization Properties of Immobilized Nucleic Acid," (1987) Nuc. Acids Res. 15(13) 5373-5390.	
	37	GOODMAN, T.C. et al. "Effects of Neighboring DNA Homopolymers on the Biochemical and Physical Properties of the Escherichia coli Lactose Promoter," (1982) J. of Biol. Chem. 257(21): 12970-12978.	
	38	GOPALAKRISHNA, Y. et al. "The Synthesis of DNA Complementary to Polyadenylate-Containing RNA from Bacillus Subtilis," (1982) J. of Biol. Chem. 257(6): 2747-2750.	
	39	GOULD, S.J. et al. (1989). "Use of the DNA Polymerase Chain Reaction for Homology Probing: Isolation of Partial cDNA or Genomic Clones Encoding the Iron-Sulfur Protein of Succinate Dehydrogenase from Several Species," (1989) Proc. Natl. Acad. Sci. USA 86: 1934-1938.	
	40	GRUOL, D.L. et al. "Multiple Voltage-Sensitive K <sup>+</sup> Channels Regulate Dendritic Excitability in Cerebellar Purkinje Neurons," (1989) (PubMed Abstract) Neurosci. Lett. 97(1-2): 97-102.	
	41	GUATELLI, J.C. et al. "Nucleic Acid Amplification In Vitro: Detection of Sequences with Low Copy Numbers and Application to Diagnosis of Human Immunodeficiency Virus Type 1 Infection," (1989) Clin. Microbiol. Revs. 2(2): 217-226.	
	42	GUBLER, U. et al. (1983). "A Simple and Very Efficient Method for Generating cDNA Libraries," (1983) Gene 25: 263-269.	
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	44	HAAS, R.C. et al. "Isolation and Characterization of the Gene and cDNA Encoding Human Mitochondrial Creatine Kinase," (1989) J. of Biol. Chem. 264(5): 2890-2897.	
	45	HAGEN, F.S. et al. "Assaying the Quality of cDNA Libraries," (1988) BioTechniques. 6(4): 340-345.	
	46	HEIDECKER, G. et al. "Sequence Analysis of zein cDNAs Obtained by an Efficient mRNA Cloning Method," (1983) Nucleic Acids Res. 11(14): 4891-4906.	
	47	HINTON, D.M. et al. "Bacteriophage T4 DNA Primase-Helicase," (1987) J. of Biol. Chem. 262(22): 10873-10878.	
	48	HOHN, P.A. et al. "Genomic Organization and Chromosomal Localization of the Human Cathepsin G Gene," (1989) J. of Biol. Chem. 264(23): 13412-13419.	
	49	HOLLOMAN, J.D. et al. "HLA-DR Restriction-Fragment-Length Polymorphisms in Narcolepsy," (1987) J. of Neurosci. Res. 18:239-244.	
	50	HORWITZ, M.S.Z. et al. "DNA Sequences of Random Origin as Probes of Escherichia coli Promoter Architecture,"(1988) J. of Biol. Chem. 263(29): 14724-14731.	
	51	HUANG, B. et al. "Molecular Cloning of cDNA for Caltractin, a Basal Body-Associated Ca <sup>2+</sup> -Binding Protein: Homology in Its Protein Sequence with Calmodulin and the Yeast CDC31 Gene Product," (1988) J. of Cell Biol. 107: 133-140.	
	52	HUBER, H.E. et al. "Interaction of Mutant Thioredoxins of Escherichia coli with the Gene 5 Protein of Phage T7," (1986) J. of Biol. Chem. 261(32): 15006-15012.	
	53	HUBER, H.E. et al "Escherichia coli Thioredoxin Stabilizes Complexes of Bacteriophage T7 DNA Polymerase and Primed Templates," (1987) J. of Biol. Chem. 262(33): 16224-16232.	
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		Application Number	09/713,545		
		Filing Date	November 15, 2000		
		First Named Inventor	Van Gelder et al		
		Group Art Unit	1636		
		Examiner Name	Gerald G. Leffers Jr., Ph.D.		
Sheet	9	of	16	Attorney Docket Number	112133.00003

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	55	JOELS, M. et al. "Unique Properties of Non-N-Methyl-D-Aspartate Excitatory Responses in Cultured Purkinje Neurons," (1989) (PubMed Abstract) Proc. Natl. Acad. Sci. USA 86(9): 3404-3408.	
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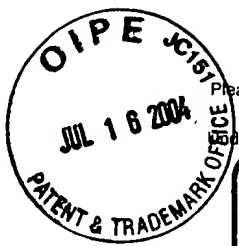
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	66	KWOH, D.Y. et al. "Transcription-Based Amplification System and Detection of Amplified Human Immunodeficiency Virus Type 1 with a Bead-Based Sandwich Hybridization Format," (1989) Proc. Natl. Acad. Sci. USA 86: 1173-1177.	
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	77	LU, X. et al. "Cell Cycle Phase-Specific cDNA Libraries Reflecting Phase-Specific Gene Expression of Ehrlich Ascites Cells Growing in Vivo," (1988) Experimental Cell Res. 174: 199-214.	
	78	MAYR, V. A. "TC-Marker des Attenuierten Vaccinia-Impfstammes "MVA" in Menschlichen Zellkulturen," (1976) Zbl. Vet. Med. B. 23: 417-430.	
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	80	MELTON, D.A. et al. "Efficient in vitro Synthesis of Biologically Active RNA and mRNA Hybridization Probes from Plasmids Containing a Bacteriophage SP6 Promoter," (1984) Nucleic Acids Res. 12(18): 7035-7056.	
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<b>Sheet</b>	12	<b>of</b>	16	<b>Attorney Docket Number</b>	112133.00003

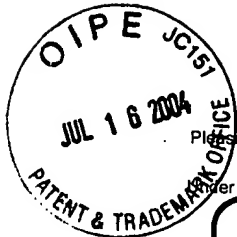
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	88	NAKAI, H. et al. "Interactions of the DNA Polymerase and Gene 4 Protein of Bacteriophage T7," (1986) J. of Biol. Chem. 261(32): 15208-15216.	
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	98	POLITES, H.G. "An Improvement and Simplification in the Gubler-Hoffman Method of cDNA Synthesis," (1988) BioTechniques 6(8): 720-724.	

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	99	PORTELA, A. et al. "A Polymer Vector System That Allows Temperature Dependent Gene Amplification and Expression in Mammalian Cells: Regulation of the Influenza Virus NS1 Gene Expression," (1985) Nucleic Acids Res. 13(22): 7959-7977.	
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	C	RABKIN, S.D. et al. "Initiation of cDNA Replication at Cloned Origins of Bacteriophage T7," (1988) J. Mol. Biol. 204: 903-916.	
	D	SAIKI, R.K. et al. "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," (1988) Science 239: 487-491.	
	E	SANGER, F. et al. "DNA Sequencing with Chain-Terminating Inhibitors," (1977) Proc. Natl. Acad. Sci. USA 74(12): 5463-5467.	
	F	SARGENT, T.D. "Isolation of Differentially Expressed Genes," (1987) In Methods in Enzymology Volume 152 Guide to Molecular Cloning, Berger, S.L. et al. eds., Academic Press, Inc., San Diego. pp. 423-432.	
	G	SARKAR, G. et al. "RNA Amplification with Transcript Sequencing (RAWTS) ," (1988) Nucleic Acids Res, 16(11): 5197.	
	H	SARKAR, G. et al. "Access to Messenger RNA Sequence or Its Protein Products Is Not Limited by Tissue or Species Specifically," (1989) Science 244: 331-334.	
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	J	SCHOWALTER, D.B. et al. "The Generation of Radiolabeled DNA and RNA Probes with Polymerase Chain Reaction," (1989) Analytical Biochem. 177: 90-94.	

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Sheet 14 of 16

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	K	STOFLET, E.S. et al. "Genomic Amplification with Transcript Sequencing," (1988) Science 239: 491-494.	
	L	STRUHL, K. "Naturally Occurring Poly(dA-dT) Sequences are Upstream Promoter Elements for Constitutive Transcription in Yeast," (1985) Proc. Natl. Acad. Sci. USA 82: 8419-8423.	
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	Q	TABOR, S. et al. "Escherichia coli Thioredoxin Confers Processivity on the DNA Polymerase Activity of the Gene 5 Protein Bacteriophage T7," (1987) J. of Biol. Chem. 262(33): 16212-16223.	
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	S	TECOTT, L.H. et al. "In Situ Transcription: Specific Synthesis of Complementary DNA in Fixed Tissue Sections," (1988) Science 240: 1661-1664.	
	T	TECOTT, L.H. et al. "Developmental Expression of Proenkephalin mRNA and Peptides in Rat Striatum," (1989) Developmental Brain Res. 49: 75-86.	
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	V	VALENTINO, K.L. et al. "Distribution of Neuropeptide K-Immunoreactivity in the Rat Central Nervous System," (1986) Peptides 7: 1043-1059.	
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	A2	WILSON, E.M. et al. "Expression Vector pT7: TKII for the Synthesis of Authentic Biologically Active RNA Encoding Vaccinia Virus Thymidine Kinase," (1989) Gene 77: 69-78.	
	A3	WU, D.Y. et al. "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," (1989) Genomics 4: 560-569.	
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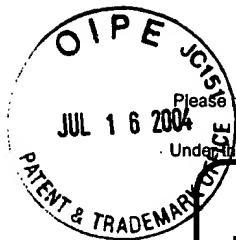
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Sheet 16 of 16

### Complete if Known

Application Number	09/713,545
Filing Date	November 15, 2000
First Named Inventor	Van Gelder et al
Group Art Unit	1636
Examiner Name	Gerald G. Leffers Jr., Ph.D.
Attorney Docket Number	112133.00003

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A7	TEXTBOOK: , ALBRETS, B. et al. eds. Molecular Biology of the Cell, Second Edition, (1989) Garland Publishing, Inc., New York.	
	A8	TEXTBOOK: BERGER, S.L. et al. eds. Methods in Enzymology Volume 152 Guide to Molecular Cloning, (1987) Academic Press, Inc., San Diego.	
	A9	TEXTBOOK: OLD, R.W. et al. eds. Principles of Gene Manipulation An Introduction to Genetic Engineering, Fourth Edition, (1989) Blackwell Scientific Publications, Oxford.	
	B1	TEXTBOOK: SAMBROOK, et al. eds. Molecular Cloning A Laboratory Manual, Second Edition, (1989) Cold Spring Harbor Laboratory Press, USA.	
	B2	TEXTBOOK: WATSON, J.D. et al. eds. Molecular Biology of the Gene, Fourth Edition, Vol. I General Principles, (1987) The Benjamin/Cummings Publishing Company, Inc. Menlo Park.	
	B3	TEXTBOOK: WATSON, J.D. et al. eds. Molecular Biology of the Gene, Fourth Edition, Vol. II Specialized Aspects, (1987) The Benjamin/Cummings Publishing Company, Inc., Menlo Park.	
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